



IFWO

RAW SEQUENCE LISTING

DATE: 03/28/2007

PATENT APPLICATION: US/10/571,989A

TIME: 14:54:06

Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt

Output Set: N:\CRF4\03282007\J571989A.raw

3 <110> APPLICANT: Cleveland State University
 5 <120> TITLE OF INVENTION: EXOSITE-DIRECTED THROMBIN INHIBITORS
 7 <130> FILE REFERENCE: CLEV200023
 9 <140> CURRENT APPLICATION NUMBER: US 10/571,989A
 C--> 10 <141> CURRENT FILING DATE: 2006-03-13
 12 <150> PRIOR APPLICATION NUMBER: PCT/US04/021487
 13 <151> PRIOR FILING DATE: 2004-07-01
 15 <150> PRIOR APPLICATION NUMBER: US 60/502186
 16 <151> PRIOR FILING DATE: 2003-09-12
 18 <160> NUMBER OF SEQ ID NOS: 25
 20 <170> SOFTWARE: PatentIn version 3.2
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 30
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 29 Lys Met His Asp Arg Leu Glu Pro Gln Asp Glu Glu Ser Asp Ala Asp
 30 1 5 10 15
 33 Tyr Asp Tyr Gln Asn Arg Leu Ala Ala Ala Leu Gly Ile Arg
 34 20 25 30
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 10
 39 <212> TYPE: PRT
 40 <213> ORGANISM: Homo sapiens
 42 <400> SEQUENCE: 2
 44 Lys Met His Asp Arg Leu Glu Pro Glu Asp
 45 1 5 10
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 10
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Homo sapiens
 53 <400> SEQUENCE: 3
 55 Leu Glu Pro Glu Asp Glu Glu Ser Asp Ala
 56 1 5 10
 59 <210> SEQ ID NO: 4
 60 <211> LENGTH: 10
 61 <212> TYPE: PRT
 62 <213> ORGANISM: Homo sapiens
 64 <400> SEQUENCE: 4
 66 Glu Glu Ser Asp Ala Asp Tyr Asp Tyr Gln
 67 1 5 10
 70 <210> SEQ ID NO: 5
 71 <211> LENGTH: 10

see pg 2-4
Does Not Comply
Corrected Diskette Needed

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Output Set: N:\CRF4\03282007\J571989A.raw

```

72 <212> TYPE: PRT
73 <213> ORGANISM: Homo sapiens
75 <400> SEQUENCE: 5
77 Asp Tyr Asp Tyr Gln Asn Arg Leu Ala Ala
78 1 5 10
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 10
83 <212> TYPE: PRT
84 <213> ORGANISM: Homo sapiens
86 <400> SEQUENCE: 6
88 Asn Arg Leu Ala Ala Ala Leu Gly Ile Arg
89 1 5 10
92 <210> SEQ ID NO: 7
93 <211> LENGTH: 5
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial
97 <220> FEATURE:
98 <223> OTHER INFORMATION: chemically synthesized
100 <400> SEQUENCE: 7
102 Asp Tyr Asp Tyr Gln
103 1 5
106 <210> SEQ ID NO: 8
107 <211> LENGTH: 5
108 <212> TYPE: PRT
109 <213> ORGANISM: Artificial
111 <220> FEATURE:
112 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATION 4 IS SULFONATED (-SO3-2)
114 <400> SEQUENCE: 8
116 Asp Tyr Asp Tyr Gln
117 1 5
120 <210> SEQ ID NO: 9
121 <211> LENGTH: 5
122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial
125 <220> FEATURE:
126 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATIONS 2 AND 4 ARE SULFONATED (-SO3-2)
128 <400> SEQUENCE: 9
130 Asp Tyr Asp Tyr Gln
131 1 5
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 4
136 <212> TYPE: PRT
137 <213> ORGANISM: Homo sapiens
139 <400> SEQUENCE: 10
141 Asp Tyr Asp Tyr
142 1
145 <210> SEQ ID NO: 11
146 <211> LENGTH: 5
147 <212> TYPE: PRT

```

this may replace Tyr, but it does not explain
↓
Artificial Sequence
(see item 11 on Error Summary sheet)

same error

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Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt

Output Set: N:\CRF4\03282007\J571989A.raw

225 <210> SEQ ID NO: 18
 226 <211> LENGTH: 15
 227 <212> TYPE: DNA
 228 <213> ORGANISM: Homo sapiens
 230 <400> SEQUENCE: 18
 231 tcatccagga gaacc 15
 234 <210> SEQ ID NO: 19
 235 <211> LENGTH: 28
 236 <212> TYPE: DNA
 237 <213> ORGANISM: Homo sapiens
 239 <400> SEQUENCE: 19
 240 gctaagttta agttccagaa cagactgg 28
 243 <210> SEQ ID NO: 20
 244 <211> LENGTH: 28
 245 <212> TYPE: DNA
 246 <213> ORGANISM: Homo sapiens
 248 <400> SEQUENCE: 20
 249 ccagtctgtt ctggaactta aacttagc 28
 252 <210> SEQ ID NO: 21
 253 <211> LENGTH: 13
 254 <212> TYPE: PRT
 255 <213> ORGANISM: Artificial
 257 <220> FEATURE:
 258 <223> OTHER INFORMATION: NO COMMENT
 260 <400> SEQUENCE: 21
 262 Asp Tyr Gln Asn Arg Leu Ala Ala Ala Leu Gly Ile Arg
 263 1 5 10
 266 <210> SEQ ID NO: 22
 267 <211> LENGTH: 15
 268 <212> TYPE: PRT
 269 <213> ORGANISM: Artificial
 271 <220> FEATURE:
 272 <223> OTHER INFORMATION: NO COMMENT
 274 <400> SEQUENCE: 22
 276 Pro Val Ile Pro Ala Asn Met Asp Lys Lys Tyr Arg Ser Gln His
 277 1 5 10 15
 280 <210> SEQ ID NO: 23
 281 <211> LENGTH: 42
 282 <212> TYPE: PRT
 283 <213> ORGANISM: Homo sapiens
 285 <400> SEQUENCE: 23
 287 Asn Leu Lys Lys Ile Thr Arg Glu Gln Arg Arg His Met Lys Arg Trp
 288 1 5 10 15
 291 Glu Tyr Phe Ile Ala Ala Glu Glu Val Ile Trp Asp Tyr Ala Pro Val
 292 20 25 30
 295 Ile Pro Ala Asn Met Asp Lys Lys Tyr Arg
 296 35 40
 299 <210> SEQ ID NO: 24
 300 <211> LENGTH: 9

*Invalid. Artificial
 Sequences must be explained
 (see item 11 on Enov
 Summary sheet)*

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Output Set: N:\CRF4\03282007\J571989A.raw

```

301 <212> TYPE: PRT
302 <213> ORGANISM: Homo sapiens
304 <400> SEQUENCE: 24
306 Glu Tyr Phe Ile Ala Ala Glu Glu Val
307 1 5
310 <210> SEQ ID NO: 25
311 <211> LENGTH: 5
312 <212> TYPE: PRT
313 <213> ORGANISM: Homo sapiens
315 <400> SEQUENCE: 25
317 Glu Tyr Phe Ile Ala
318 1 5

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/571,989A

DATE: 03/28/2007
TIME: 14:54:07

Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt
Output Set: N:\CRF4\03282007\J571989A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#: 7, 8, 9, 12, 13, 14, 21, 22

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Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt
 Output Set: N:\CRF4\03282007\J571989A.raw

148 <213> ORGANISM: Homo sapiens
 150 <400> SEQUENCE: 11
 152 Asp Tyr Asp Tyr Gln
 153 1 5
 156 <210> SEQ ID NO: 12
 157 <211> LENGTH: 4
 158 <212> TYPE: PRT
 159 <213> ORGANISM: Artificial *same luo*
 161 <220> FEATURE:
 162 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATION 2 IS SULFONATED (-SO3-2)
 164 <400> SEQUENCE: 12
 166 Asp Tyr Asp Tyr
 167 1
 170 <210> SEQ ID NO: 13
 171 <211> LENGTH: 4
 172 <212> TYPE: PRT
 173 <213> ORGANISM: Artificial *same*
 175 <220> FEATURE:
 176 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATION 4 IS SULFONATED (-SO3-2)
 178 <400> SEQUENCE: 13
 180 Asp Tyr Asp Tyr
 181 1
 184 <210> SEQ ID NO: 14
 185 <211> LENGTH: 4
 186 <212> TYPE: PRT
 187 <213> ORGANISM: Artificial *same*
 189 <220> FEATURE:
 190 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATIONS 2 AND 4 ARE SULFONATED (-SO3-2)
 192 <400> SEQUENCE: 14
 194 Asp Tyr Asp Tyr
 195 1
 198 <210> SEQ ID NO: 15
 199 <211> LENGTH: 23
 200 <212> TYPE: DNA
 201 <213> ORGANISM: Homo sapiens
 203 <400> SEQUENCE: 15 23
 204 gagtgatgct aagtttgatt acc
 207 <210> SEQ ID NO: 16
 208 <211> LENGTH: 23
 209 <212> TYPE: DNA
 210 <213> ORGANISM: Homo sapiens
 212 <400> SEQUENCE: 16 23
 213 ggtaatcaaa ctttagcatca etc
 216 <210> SEQ ID NO: 17
 217 <211> LENGTH: 18
 218 <212> TYPE: DNA
 219 <213> ORGANISM: Homo sapiens
 221 <400> SEQUENCE: 17 18
 222 catggagtga ccttctcg

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/571,989A

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Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date